

# Air Excellent Ventilation System



*Declaration Quality mark TÜV SÜD*

Thomas Hohmann

28.10.2016

a

The Air Excellent air distribution system is ductwork to distribute air for central mechanical ventilation systems with and without heat recovery used to ventilate residential and commercial buildings.

Material	Semi-rigid ventilation ducts in PE outer and PE inner layer Connecting parts and accessories in PP
Colors	Green, Red and Grey
Product range	Semi-rigid ducts and components  Round shaped ducts: AE23C DN63/52 AE34C DN75/63 AE48C DN90/75  Semi Circular shaped ducts: AE35SC 50 x 100 mm AE45SC 50 x 140 mm AE55SC 60 x 130 mm  Components: 90° bends (horizontal and vertical) Valve adaptors Connectors Distribution box and adaptors
Special	Antistatic properties Microbial resistant
Environment	No migration of harmful substances or ingredients
Remark	System certified by TÜV SÜD   

Property	Value	Test basics
Working pressure	Working pressure between: -2000 Pa and +2000 Pa	TÜV SÜD TAK 01-2013
Air tightness	AE23C, AE34C, AE48C, AE25SC and AE55SC: Class D  AE45SC: Class C  in the range of -2000 Pa to +2000 Pa	TÜV SÜD TAK 01-2013
Pressure losses	see Air Excellent Technical Data Sheets	TÜV SÜD TAK 01-2013
Temperature range	Maximum operating temperature: +60°C Minimum operating temperature: -20°C	TÜV SÜD TAK 01-2013
Reaction to fire	Class E	EN 13501-1
Resistance against external pressure (concrete height)	All duct types: 200 mm	TÜV SÜD TAK 01-2013
Ring stiffness	Round shaped ducts: AE23C 10,83 kN/m <sup>2</sup> AE34C 7,85 kN/m <sup>2</sup> AE48C 7,75 kN/m <sup>2</sup>  Semi Circular shaped ducts: AE35SC 11,08 kN/m <sup>2</sup> AE45SC 1,33 kN/m <sup>2</sup> AE55SC 5,85 kN/m <sup>2</sup>	TÜV SÜD TAK 01-2013
Bending radii	see Air Excellent Technical Data Sheets	TÜV SÜD TAK 01-2013
Mechanical connections	10m duct length	TÜV SÜD TAK 01-2013
Flexibility	Bendable without tools	TÜV SÜD TAK 01-2013

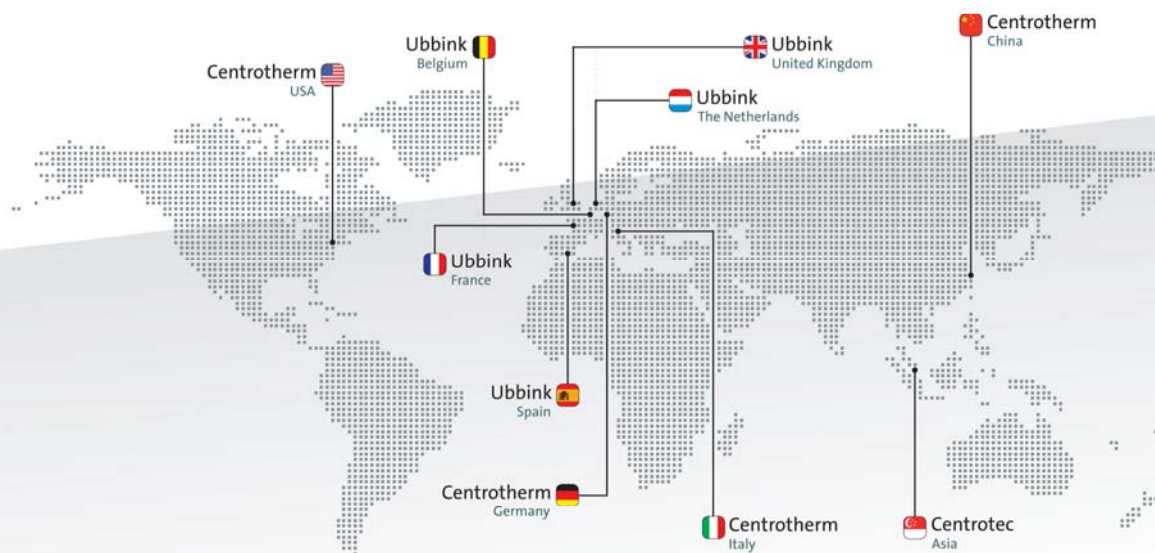
Property	Value	Test basics
Bending stiffness	2m distance between supports	TÜV SÜD TAK 01-2013
Microbial resistance	99,99 % of bacteria died after 72 h	ISO 22196
Food compatibleness	No volatile (harmful) substances release to endanger human health	TÜV SÜD TAK 01-2013
Antistatic properties	Surface resistance $< 10^{12}$ Ohm	TÜV SÜD TAK 01-2013

On behalf of the manufacturer

Brilon, October 28 – 2016

  
Thomas Hohmann  
Norms and Approval Officer  
Ubbink/Centrotherm Group

**Ubbink**  
**Centrotherm**  
group



**Ubbink Netherlands**

[www.ubbink.nl](http://www.ubbink.nl)

**Ubbink Belgium**

[www.ubbink.be](http://www.ubbink.be)

**Ubbink France**

[www.ubbink.fr](http://www.ubbink.fr)

**Ubbink Spain**

[www.ubbink.es](http://www.ubbink.es)

**Ubbink United Kingdom**

[www.ubbink.co.uk](http://www.ubbink.co.uk)

**Centrotherm Germany**

[www.centrotherm.com](http://www.centrotherm.com)

**Centrotherm Italy**

[www.centrotherm.it](http://www.centrotherm.it)

**Centrotherm U.S.A.**

[www.centrotherm.us.com](http://www.centrotherm.us.com)

**Centrotherm China**

[www.centrotherm-china.com](http://www.centrotherm-china.com)

[www.ubbink-centrotherm.com](http://www.ubbink-centrotherm.com)